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DATE MAILED: 08/29/2003

10/048,168 06/10/2002 Heinz Kern 306.41102 X00 4379  20457 7590 08/29/2003  ANTONELLI, TERRY, STOUT & KRAUS, LLP  1300 NORTH SEVENTEENTH STREET  HAYES, BRET C	20457 7590 08/29/2003 ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET	APPLICAÇION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET  HAVES BRET C	ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800  EXAMINER HAYES, BRET C	10/048,168	10/048,168 06/10/2002 Heinz Kern		306.41102 X00	4379	
1300 NORTH SEVENTEENTH STREET	1300 NORTH SEVENTEENTH STREET SUITE 1800 HAYES, BRET C					NED	
		1300 NORTH SEVENTEENTH STREET					
ART UNIT PAPER NUMBER					3644		

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)			
Office Action Summary	10/048,168	KERN, HEINZ			
Office Action Summary	Examiner	Art Unit			
The MAILING DATE of this communication appe	Bret C Hayes	3644			
Period for Reply	ears on the cover sheet with the t	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period with the period for reply within the set or extended period for reply will, by statute, any reply received by the Office later than three months after the mailing the earned patent term adjustment. See 37 CFR 1.704(b).  Status	6(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day II apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed ys will be considered timely. Ithe mailing date of this communication. ED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 09 Ju	<u>ıly 2003</u> .				
2a)⊠ This action is <b>FINAL</b> . 2b)□ This	s action is non-final.				
3) Since this application is in condition for allowar					
closed in accordance with the practice under E Disposition of Claims	x parte Quayle, 1935 C.D. 11, 4	453 O.G. 213.			
4) Claim(s) $\underline{1-6}$ is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	n from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-6</u> is/are rejected.		•			
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or Application Papers	election requirement.				
9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)⊠ The proposed drawing correction filed on <u>15 July 2003</u> is: a)⊠ approved b)□ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:		, , , , ,			
1. Certified copies of the priority documents	have been received.				
2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	/ (PTO-413) Paper No(s) Patent Application (PTO-152)			

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1, 3 and 4 are rejected under 35 U.S.C. 102(b) as anticipated by US Patent No. 4,651,254 to Brede et al. ('254).
- 3. '254 discloses the invention as claimed. '254 discloses: (claim 1) pyrotechnic primer 13 for igniting propellant powder 16, the primer 13 having an ignition element 41 and flat coils 3 in which the energy required is transferred by electromagnetic means beginning at col. 3, line 30 the ignition element 41 and the coils 3 being situated on a common, flat, consumable support material beginning at col. 1, line 57, the entire support material consisting of combustible or consumable materials col. 4, lines 9 11; (claim 3) producing a three-dimensional cylindrical coil best seen in Figs. 3 5, by laying conductor ends being in one plane on top of other ends and making a contact between them, with remaining ends of the circuit traces forming the connection surfaces of the element 41 as set forth at col. 2, line 14; and (claim 4) the coil being copper set forth at col. 1, line 61.
- 4. Re claim 4, line 3, "by screen-printing", the method of forming the device is not germane to the issue of patentability of the device itself. Therefore, this limitation has not been given patentable weight.

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# Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 2, 5 and 6 are rejected under 35 U.S.C. § 103 as being unpatentable over Brede et al. ('254).
- 7. '254 discloses the invention substantially as claimed, as applied to claims 1, 3 and 4 above.
- 8. Re claims 2, 5 and 6, '254 does not explicitly disclose the entire support material consisting of paper or nitro-cellulose. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use paper or nitro-cellulose, since it was known in the both the explosive and circuit board arts that paper and nitro-cellulose materials are non-conductive and flammable, i.e., combustible and consumable materials. Further, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use any such flammable material, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

### Response to Arguments

9. Applicant's arguments with respect to claims 1-4 have been considered but are most in view of the new ground(s) of rejection.

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## Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to Bret Hayes at telephone number (703) 306 – 0553. The examiner can normally be reached Monday through Friday from 6:00 am to 4:30 pm, Eastern Standard Time.

If attempts to contact the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Jordan, can be reached at (703) 306 – 4159. The fax number is (703) 872 – 9306.

bh

8/26/03